NOVEMBER/DECEMBER 2024

23UFCA14 — STRUCTURED PROGRAMMING IN C

Time : Three hours Maximum : 75 marks

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SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is the use of Conditional Operator?
2. Write two ways of adding Comments in 'C'.
3. State the use of Goto Statement.
4. Write the syntax of Else-If ladder.
5. State the advantage of using an Array Variable.
6. What is meant by two dimensional arrays?
7. Write the general Syntax of Function Definition.
8. Define-Nesting of Functions.
9. How is a Pointer initialized?
10. What are the arithmetic operators that are permitted on Pointers?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Illustrate the Arithmetic, Relational and Logical Operators available in 'C'.

Or

(b) Examine the primary data types available in 'C'.

12. (a) Explicate the selection process of Switch Statement.

Or

(b) Write a 'C' Program to find a given number is Prime or not.

13. (a) Explain the concept of Multi-dimensional Arrays in 'C'.

Or

(b) Write a 'C' Program to Sort a list of numbers in Descending Order.

14. (a) Briefly discuss about the Storage Classes.

Or

(b) Describe the concept of Recursion with an example.

15. (a) Briefly describe the concept of Pointer increments and Scale Factors.

Or

(b) Explain the Pointer Expressions with an example.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the different types of Tokens available in C.

17. Expound any two Decision making and looping statements in 'C'.

18. With suitable example, explain One-Dimensional Array in C.

19. Enumerate the different categories of Functions in 'C' and explain any two of them.

20. Describe about "Pointers and Functions" with an example.

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